

## 5. Reading the Architecture as an Onion

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The architecture uses an onion structure. At the centre are durable concepts. The next layer defines logical relationships. The next layer specialises those relationships for a financial domain or demonstration. The next layer maps the logical model to selected technologies. The outer layer defines physical deployment, testability, and evidence. Figure 5-1 represents these layers.

```
Conceptual Architecture
└─ Logical Architecture / PIM
    └─ Domain Logical Profile
        └─ Implementation Profile / PSM
            └─ Deployment, Testability, and Evidence Plan
```

Figure 5-1: Layered structure of the Financial Systems Archetype document layers Each layer depends on the layer inside it. The outer layers may specialise, realise, deploy, or test inner-layer concepts. They must not redefine those concepts. Table 5-1: Examples of inner-layer concepts and later-layer realisations

| Inner-layer concept       | Later-layer realisation                                                              |
|---------------------------|--------------------------------------------------------------------------------------|
| Communication Endpoint    | DDS Topic, API endpoint, message queue, event stream                                 |
| Data Structure Definition | IDL structure, JSON Schema, XML Schema, UML/SysML model                              |
| Node                      | Process, container, pod, service, virtual machine                                    |
| Runtime Plane             | Topic namespace, DDS partition, Kubernetes namespace, network segment, security zone |
| Evidence                  | Logs, captured samples, test reports, deployment records, and Crucible records       |

The later-layer realisation does not replace the inner-layer concept.

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Last update: 2026/06/26 16:26

